

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A lip seal for sealing a gap between a housing and a shaft, in combination with the shaft, comprising:

a shaft having an outer surface;

a supporting body, the supporting body having an annular part oriented radially to the shaft and a cylindrical part running axially to the shaft, the annular part having two opposing sides;

a static sealing element attached to the supporting body, the static sealing element being made of a first material; and

a dynamic sealing element attached to the supporting body, the dynamic sealing element directly contacting the outer surface of the shaft and being made of a second material having a higher thermal stability than the first material;

the dynamic sealing element being fastened to the annular part and enclosing the annular part on the two opposing sides at a fastening point;

the static sealing element being positioned on the cylindrical part at a radial distance from the dynamic sealing element.

Claim 2 (original): The lip seal as recited in claim 1 wherein the supporting body is made from a rigid material.

Claim 3 (original): The lip seal as recited in claim 2 wherein the rigid material is metal.

Claim 4 (original): The lip seal as recited in claim 1 wherein the radial distance between the static sealing element and the dynamic sealing element is at least 0.5 mm.

Claim 5 (original): The lip seal as recited in claim 1 wherein the static and dynamic sealing elements are connected to the supporting body by vulcanization using a coupling agent.

Claim 6 (original): The lip seal as recited in claim 1 wherein the dynamic sealing element receives a lip shape during sliding of the seal onto the shaft.

Claim 7 (original): The lip seal as recited in claim 1 wherein the dynamic sealing element has a lip enclosing the shaft, the lip having a lip surface facing the shaft, and wherein the lip is provided with openings on the lip surface for return delivery of a medium to be sealed off.

Claim 8 (original): The lip seal as recited in claim 1 the dynamic sealing element has a lip edge with a barrier feature.

Claim 9 (original): The lip seal as recited in claim 1 wherein the dynamic sealing element has a surface facing away from the shaft, the surface having concentric or screw-shaped openings.

Claim 10 (original): The lip seal as recited in claim 9 wherein the openings are single-threaded or multiple-threaded.

Claim 11 (original): The lip seal as recited in claim 1 wherein the dynamic sealing element has a lip curved towards an environment or towards a sealed-off space.

Claim 12 (original): The lip seal as recited in claim 1 wherein the static sealing element has at least one of an end chamfer and a bottom chamfer on an outside surface.

Claim 13 (previously presented): The lip seal as recited in claim 1 wherein the static sealing element has an outside surface, the outside surface being corrugated.

Claim 14 (original): The lip seal as recited in claim 1 further comprising a sensor attached to the housing and a sensor wheel or a multipole wheel on the shaft interacting with the sensor.

Claim 15 (currently amended): A method for manufacturing a lip seal for sealing a gap between a housing and a shaft, the lip seal having a supporting body, the supporting body having an

annular part oriented radially to the shaft and a cylindrical part running axially to the shaft, the annular part having two opposing sides, the lip seal further having a static sealing element attached to the supporting body and a dynamic sealing element directly contacting the shaft attached to the supporting body, the dynamic sealing element being made of a material having a higher thermal stability than the static sealing element, the method comprising the steps of:

fastening the dynamic sealing element to the annular part and enclosing the annular part on the two opposing sides at a fastening point; and

positioning the static sealing element on the cylindrical part at a radial distance from the dynamic sealing element.

Claim 16 (currently amended): A method for sealing a gap between a housing and a shaft using a lip seal, the lip seal having a supporting body, the supporting body having an annular part oriented radially to the shaft and a cylindrical part running axially to the shaft, the annular part having two opposing sides, the lip seal further having a static sealing element attached to the supporting body and a dynamic sealing element attached to the supporting body, the dynamic sealing element being made of a material having a higher thermal stability than the static sealing element, the dynamic sealing element being fastened to the annular part and enclosing the annular part on the two opposing sides at a fastening point and the static sealing element being positioned on the cylindrical part at a radial distance from the dynamic sealing element; the method comprising the steps of:

contacting the housing with the static sealing element; and

contacting the shaft directly with the dynamic sealing element.

Claim 17 (previously presented): The lip seal as recited in claim 1 wherein the dynamic sealing element includes fluororubber.

Claim 18 (currently amended): The lip seal as recited in claim 1 wherein the dynamic sealing element includes waxes or ~~parafin~~ paraffin.

Claim 19 (previously presented): The lip seal as recited in claim 1 wherein the static sealing element includes a thermoplastic.

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Claim 20 (previously presented): The lip seal as recited in claim 1 wherein the dynamic sealing element and static sealing element are colored differently.

Claim 21(new): The method as recited in claim 16 wherein the contacting the shaft step includes sliding the dynamic sealing element axially over the shaft so that a lip of the dynamic sealing element directly contacts the shaft.

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Claim ~~21~~ (new): A lip seal for sealing a gap between a housing and a shaft comprising:
a supporting body, the supporting body having an annular part oriented radially to the shaft and a cylindrical part running axially to the shaft, the annular part having two opposing sides;
a static sealing element attached to the supporting body, the static sealing element being made of a first material; and
a dynamic sealing element attached to the supporting body, the dynamic sealing element being made of a second material having a higher thermal stability than the first material;
the dynamic sealing element being fastened to the annular part and enclosing the annular part on the two opposing sides at a fastening point;
the static sealing element being positioned on the cylindrical part at a radial distance from the dynamic sealing element;
the dynamic sealing element having a lip enclosing the shaft, the lip having a lip surface facing the shaft, and wherein the lip is provided with openings on the lip surface for return delivery of a medium to be sealed off.